

BIOCLEANTECH

— FORUM —

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Why is BioCleantech right for Canada?

Dr. Susan Wood-Bohm, Alberta Innovates

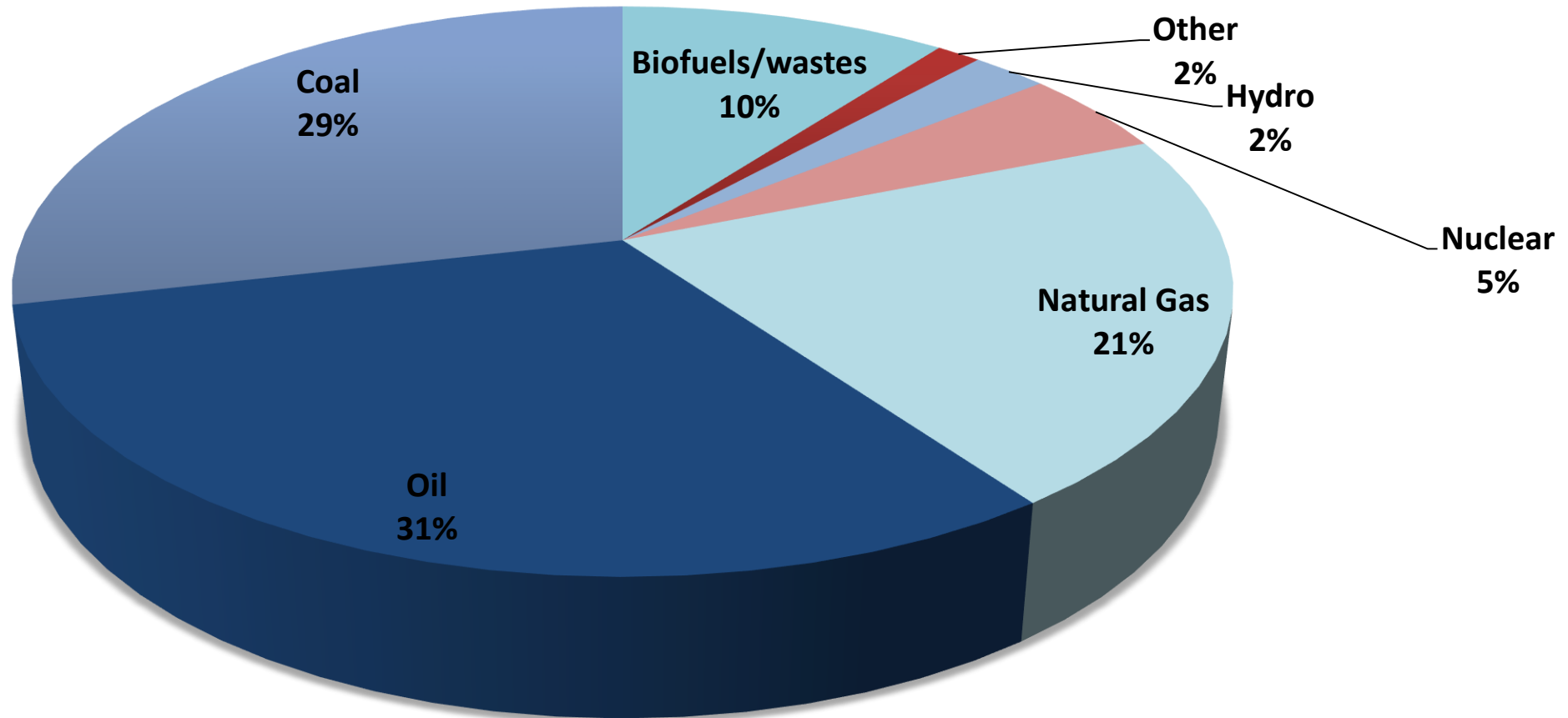
Canada's abundant supply of biomass

Residues could address 125 Mt CO₂ eq emissions/yr

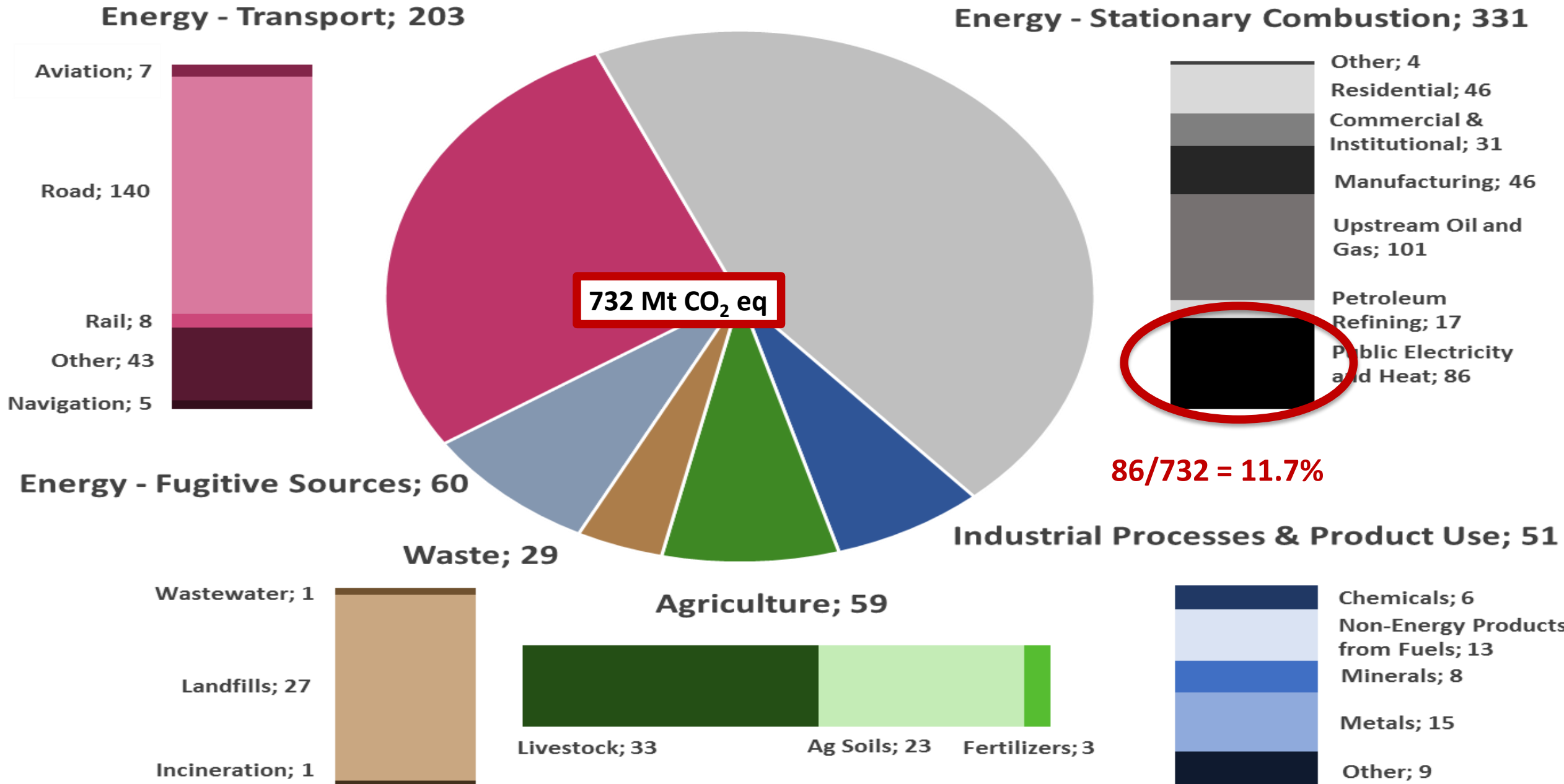


Addresses need for renewable carbon

Global energy supply is dominated by carbon



CANADA'S GHG EMISSIONS (2014)



Canada's Unique GHG Profile



Biomass addresses largest and fastest growing GHG sources

- **Large landmass** results in transportation emissions
- **Northern climate** demands space heating
- **Resource-based economy** requires process heat
- Canada has a **low electricity GHG intensity**

Avoiding Stranded Assets

Renewable carbon fits existing fossil-fuel infrastructure



BioCleantech Supports Jobs



Canada's highly skilled workforce well suited to biocleantech

- On an energy output basis, biomass generates more jobs than other renewables
- Skilled labour demanded by bioenergy, biofuels and biochemical producers
- Biofuels and bioproducts adds value to lumber and food production

Benefits for Remote Communities



Improved Sustainability for First Nations

- Current reliance on imported diesel fuel, heating oil and propane
- Biomass provides energy self-sufficiency
- First Nations expertise in regional environmental sustainability critical to success

An Innovation-based Bioeconomy



BioCleantech is a Valuable Export for Canada

- BioCleantech industry requires innovative research, development and commercialization
- Effective resource management needs big data, drones, GIS, autonomous machinery – new market opportunities for Canada

In summary

BioCleantech addresses emission reductions and economic development

- Canada has ample biomass resources to meet domestic renewable carbon demand
- Canada has a highly skilled workforce and a strong innovation agenda
- 20% of Canada's energy needs can be met by biomass, reducing emissions by 125 Mt CO₂eq/yr

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